

Production		Summary of oil & NGL production entered on entity worksheets																						
Crude Oil & NGL		Notes	1870s							1880s														
		Commissioned?	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	
1	Abu Dhabi National Oil (ADNOC), UAE	yes																						
2	Anadarko, USA	yes																						
3	Antero, USA	added June 2019																						
4	Apache, USA	yes																						
5	Bahrain Petroleum Corporation	yes																						
6	BG Group (British Gas), UK	yes																						
7	BHP Billiton, Australia	yes																						
8	BP, UK	yes																						
9	Canadian Natural Resources, Canada	yes																						
10	Chesapeake, USA	added May2019																						
11	Chevron, USA	yes																						
12	CNOOC (China National Offshore Oil), China	yes																						
13	ConocoPhillips, USA	yes																						
14	Devon Energy, USA	yes																						
15	Ecopetrol, Colombia	yes																						
16	Egyptian General Petroleum, Egypt	yes																						
17	EnCana, Canada	yes																						
18	ENI, Italy	yes																						
19	EOG Resources, USA	added June 2019																						
20	EQT Corporation, USA	added June 2019																						
21	Equinor, Norway	yes																						
22	ExxonMobil, USA	yes																						
23	Former Soviet Union (FSU)	yes																						
24	Gazprom, Russian Federation	yes																						
25	Hess, USA	yes																						
26	Husky, Canada	yes																						
27	Inpex, Japan	added June 2019																						
28	Iraq National Oil Company, Iraq	yes																						
29	Kuwait Petroleum Corp., Kuwait	yes																						
30	Libya National Oil Corp., Libya	yes																						
31	Lukoil, Russian Federation	yes																						
32	Marathon, USA	yes																						
33	Murphy Oil, USA	yes																						
34	Nexen, Canada (acq. by CNOOC)	yes																						
35	National Iranian Oil Company (NIOC), Iran	yes																						
36	Nigerian National Petroleum, Nigeria	yes																						
37	Noble Energy, USA	added May2019																						
38	Novatek, Russian Federation	added May2019																						
39	Obaldian / PennWest, Canada	added June 2019																						
40	Occidental, USA	yes																						
41	Oil and Natural Gas Corporation, India	yes																						
42	OMV Group, Austria	yes																						
43	Pertamina, Indonesia	yes																						
44	Petoro, Norway	added June 2019																						
45	PetroChina (CNPC), China	yes																						
46	Petroleo Brasileiro (Petrobras), Brazil	yes																						
47	Petroleos de Venezuela, Venezuela	yes																						
48	Petroleos Mexicanos (PEMEX), Mexico	yes																						
49	Petroleum Development Oman, Oman	yes																						
50	PetroEcuador	added May2019																						
51	Petronas, Malaysia	yes																						
52	Pioneer, USA	added June 2019																						
53	Polish Oil & Gas, Poland	yes																						
54	Qatar Petroleum, Qatar	yes																						
55	Repsol, Spain	yes																						
56	Rosneft, Russian Federation	yes																						
57	Royal Dutch Shell plc, The Netherlands	yes																						
58	Santos, Australia	added May2019																						
59	Saudi Aramco, Saudi Arabia	yes																						
60	Sinopec, China	yes																						
61	Sonangol, Angola	yes																						
62	Sonatrach, Algeria	yes																						
63	Southwestern, USA	added June 2019																						
64	Suncor, Canada	yes																						
65	Syrian Petroleum, Syria	yes																						
66	Talisman, Canada	yes																						
67	Total, France	yes																						
68	TurkmenGaz, Turkmenistan	added June 2019																						
69	Wintershall	added May2019																						
70	Woodside, Australia	added May2019																						
71	YPF, Argentina	added May2019																						
72	Yukos, Russian Federation	yes																						
Annual oil & NGL prod'n by identified entities:			0	0	0	0	0	1	1															
Annual world oil & NGL supplied 1960-2010																								
Percent identified prod'n of global prod'n																								

	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1	<b>Summary of oil &amp; NGL production entered on entity worksheets</b>																										
2																											
3	Richard Heede Climate Accountability Institute 12-Jul-19																										
4	Copyright Climate Accountability Institute																										
5																											
6																											
7	1890s										1900s										1910s						
8	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916
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1	<b>Summary of oil &amp; NGL production entered on entity worksheets</b>																											
2																												
3	Richard Heede Climate Accountability Institute [ 22-Jun-19 ]																											
4																												
5	Copyright Climate Accountability Institute																											
6																												
7	1910s				1920s									1930s									1940s					
8	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	
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32	3	3	3	4	4	8	17	15	14	53	55	55	65	102	96	99	100	105	121	131	209	240	251	276	278	260	308	
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156	68	55	77	103	125	155	229	242	258	335	399	457	501	538	490	504	540	635	701	765	941	1,008	999	1,020	1,081	1,032	1,201	
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1	<b>Summary of oil &amp; NGL production entered on entity worksheets</b>																											
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7	1940s														1950s										1960s			
8	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
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26	183	215	254	270	323	321	444	404	353	405	428	539	586	579	664	691	774	819	878	921	1,041	1,107	1,236	1,342	1,478	1,633	1,863	2,017
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32	380	418	450	480	544	543	649	781	833	874	913	1,016	1,110	1,228	1,283	1,362	1,497	1,634	1,780	1,883	1,984	2,188	2,406	2,640	2,864	3,109	3,400	3,468
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36	52	58	117	122	133	122	142	165	170	176	182	197	216	228	226	260	274	281	301	322	345	376	401	411	433	455	500	496
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54	393	425	468	518	533	473	576	687	734	764	788	881	971	995	974	1,025	1,058	1,140	1,253	1,387	1,503	1,630	1,732	1,872	2,047	2,112	2,299	2,398
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80	10	13	14	15	19	20	24	83	6	11	26	118	193	259	296	333	391	438	485	544	624	697	777	949	1,037	1,234	1,398	1,657
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124	206	216	239	293	351	324	367	429	466	481	455	497	550	603	568	639	642	651	711	730	808	874	967	994	1,062	1,203	1,338	1,972
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128	0.8	2	6	9	14	17	20	28	30	31	35	35	36	36	37	40	46	52	58	64	70	81	97	106	116	123	144	179
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156	1,445	1,606	1,822	2,004	2,235	2,214	2,654	3,056	3,111	3,302	3,439	3,977	4,441	4,901	5,234	5,701	6,327	6,834	7,555	8,190	9,035	9,820	11,068	11,942	13,029	14,142	15,612	17,208
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7,661 8,194 8,888 9,537 10,286 11,604 12,615 13,543 14,753 15,932 17,547 18,537  
 IIA data 1965-1969 BP data 1965-1969  
 78.6% 79.4% 81.0% 81.8% 83.7% 84.5% 87.6% 88.0% 88.0% 88.5% 88.8% 92.5%

Summary of oil & NGL production entered on entity worksheets

	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED
1																											
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7	1970s							1980s							1990s							1990s					
8	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
12	38	118	302	301	347	362	317	323	294	248	200	186	180	174	285	395	379	537	596	723	672	654	678	684	674	708	748
14	129	126	122	119	115	112	109	105	102	99	95	92	89	132	129	118	118	116	115	119	119	121	124	117	118	118	191
18																											
19																											
20	3	2	2	12	13	17	15	14	20	20	19	19	18	18	19	14	16	16	14	14	39	39	38	15	14	38	37
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23																											
24	55	57	70	69	74	76	80	79	79	74	160	180	93	102	93	93	93	82	104	113	71	112	75	75	78	82	86
26	2,198	2,203	2,067	1,727	1,741	1,800	2,086	1,826	1,508	1,460	1,438	1,377	1,325	1,257	1,184	1,207	993	945	892	842	811	814	810	784	794	790	843
28																											
29																											
30																											
31																											
32	3,731	3,913	3,867	2,869	2,968	2,886	2,664	2,666	2,491	2,363	1,684	1,409	1,051	917	912	871	809	710	686	694	660	659	754	722	758	780	823
34																											
35																											
36	512	503	436	434	431	447	478	473	473	444	438	451	405	395	398	393	417	405	407	401	403	397	392	394	409	422	412
38																											
39																											
40																											
42	8	6	6	9	62	79	93	101	114	114	128	140	158	170	156	171	164	169	170	171	167	169	170	175	175	164	160
44																											
45																											
46	106	137	108	105	115	112	129	126	121	87	90	92	104	104	103	126	139	158	176	178	189	195	210	223	224	236	238
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50																											
51																											
52	1	1	1	6	8	8	10	16	28	34	42	60	108	117	126	133	142	155	158	200	224	232	262	258	250	229	246
54	2,566	2,533	2,121	1,869	1,525	1,642	1,545	1,618	1,342	705	715	802	859	910	921	929	937	907	868	901	900	893	941	930	906	926	919
56	2,208	2,373	2,482	2,738	2,957	3,139	3,431	3,614	4,377	4,435	4,463	4,490	4,453	4,356	4,502	4,555	4,564	4,431	4,161	3,800							
58																											
59																											
60	84	78	58	57	62	65	64	70	65	64	63	62	61	57	57	50	53	56	63	73	82	79	92	95	87	80	75
62																											
63																											
64																											
66	429	590	575	660	707	686	748	1,016	736	293	297	295	354	421	496	610	790	862	604	89	124	154	167	171	175	343	632
68	195	358	745	759	785	719	777	913	639	463	302	301	399	365	442	371	439	581	388	50	383	682	730	730	730	768	657
70	328	412	313	332	468	539	517	547	467	300	304	290	287	277	272	256	308	303	360	389	376	358	362	365	370	385	371
72																											
73																											
74	118	114	102	97	106	114	109	111	108	104	101	98	95	92	92	80	81	76	72	71	61	57	62	74	66	60	71
76																											
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78																											
79																											
80	1,832	2,139	2,197	1,953	2,146	2,066	1,913	1,157	610	507	811	894	797	825	748	846	825	1,036	1,140	1,227	1,270	1,312	1,341	1,352	1,367	1,363	1,354
82	166	187	206	163	189	190	173	357	450	314	284	272	304	327	321	294	318	376	396	414	426	429	423	436	438	467	472
84																											
85																											
86																											
87																											
88																											
89																											
90	139	92	61	52	64	92	119	129	108	97	103	154	113	119	119	110	85	72	80	72	73	84	94	109	117	116	133
92	57	55	56	62	65	73	82	89	66	119	143	176	190	227	232	222	232	247	243	227	204	195	228	256	239	242	212
94																											
95																											
96	201	249	256	243	280	314	304	296	307	316	264	267	277	255	264	222	492	514	534	581	491	484	551	547	590	498	480
98																											
99																											
100																											
101																											
102	61	62	65	63	61	58	58	60	66	78	95	120	171	203	215	215	211	225	239	236	238	244	253	261	295	317	367
104	118	123	109	86	669	654	634	689	651	630	571	543	542	508	550	539	584	589	658	732	731	764	811	867	922	1,021	988
106	184	191	238	294	326	406	485	537	709	844	858	872	886	899	913	927	917	917	964	1,013	973	976	1,147	1,119	1,199	1,245	1,278
108	62	64	64	85	79	74	69	65	62	69	71	82	89	107	121	125	132	135	143	146	152	161	175	185	191	196	195
110																											
111																											
112																											
113																											
114																											
115																											
116																											
117																											
118	18	52	115	98	148	131	144	151	141	125	105	93	123	97	96	93	110	118	130	130	140	137	136	145	164	181	228
120	4	4	4	5	8	11	14	17	21	24	27	30	33	36	39	199	209	219	231	235	172	174	206	233	231	251	264
122																											
123																											
124	2,043	2,149	1,893	1,271	1,212	1,171	1,092	1,039	493	460	499	546	587	598	658	645	645	676	725	794	789	789	829	860	907	916	917
126																											
127																											
128	227	714	1,828	1,526	3,121	3,371	3,037	3,490	3,660	3,676	2,466	1,717	1,565	1,225	1,823	1,583	1,956	1,929	2,479	3,148	3,208	3,108	3,118	3,117	3,155	3,110	3,201
130																											
131																											
132	5	6	6	6	10	36	24	27	28	24	23	33	39	43	52	67	84	85	88	93	98	95	100	120	132	133	137
134	153	163	154	155	174	189	207	212	197	185	188	187	208	218	232	231	228	261	291	293	282	275	274	279	299	311	301
136																											
137																											
138																											
139																											
140	27	23	27	37	38	41	37	36	36	36	35	37	37	39	43	51	58	75	85	108	106	123	124	129	133	128	126
142																											
143																											
144	454	236	258	215	224	212	213	210	187	111	100	87	91	224	235	357	399	434	385	414	414	419	521	570	521	538	548
146																											
148																											
149																											
150																											
151																											
152																											
153																											
154																											
155																											
156	18,457	20,033	20,938	18,506	21,349	21,954	21,849	22,270	20,846	19,008	17,281	16,594	16,257	15,983	17,038	17,391	18,541	19,993	21,136	21,240	17,559	17,921	18,803	19,206	20,001	20,679	21,420
158	19,547	21,371	21,415	20,371	22,061	22,900	23,113	24,114	22,974	21,727	20,904	20,656	21,038	20,930	21,963	22,048	22,936	23,283	23,732	23,674	23,980	24,050	24,410	24,761	25,359	26,006	26,645
160	94.2%	93.9%	98.0%	91.2%	97.1%	95.9%	94.7%	92.5%	90.7%	87.5%	82.7%	80.3%	77.3%	76.4%	77.6%	78.9%	80.8%	85.9%	89.1%	89.7%	73.2%	74.5%	77.0%	77.6%	78.9%	79.5%	80.4%
163																											
164																											

	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD
1	Summary of oil & NGL production entered on entity worksheets																								data to 2018	Production
2																										
3	Richard Heede Climate Accountability Institute 12-Jul-19																									Copyright Climate Accountability Institute
4																										
5																										
6																										
7																										
8	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019					
9	Million barrels																					Cumulative	Crude Oil & NGL			
10																										
11																										
12	673	695	670	617	675	714	840	894	847	889	779	789	913	948	997	1,002	1,069	1,095	1,186	1,278	forecast					
13																										
14	153	129	162	167	148	143	131	86	96	80	85	97	106	116	124	150	163	162	165	178						
15														0	2	8	18	29	38	46						
16																										
17	35	45	57	59	78	88	89	86	96	97	106	125	135	141	146	141	128	124	109	-						
18																										
19	37	38	63	64	64	14	13	13	13	12	12	12	14	15	15	18	18	18	18	18						
20																										
21	25	25	28	42	43	47	49	52	64	66	66	63	61	63	70	81	108									
22																										
23	89	88	87	74	61	52	61	57	57	69	78	97	92	85	90	106	125	116	97	86						
24																										
25	849	704	705	737	774	924	935	903	881	876	925	867	787	750	735	703	746	748	825	800						
26																										
27	32	64	75	78	88	103	114	121	115	130	155	120	142	174	194	206	191	250	-							
28																										
29	4	3	3	3	5	7	8	9	10	11	12	18	32	49	62	75	70	58	54	52						
30																										
31	811	781	776	753	718	733	661	672	651	612	683	702	675	644	632	624	637	627	629	650						
32																										
33	200	151	167	218	191	190	307	199	214	232	261	331	317	332	333	340	410	395	389	-						
34																										
35	413	415	485	419	400	430	508	536	523	499	521	463	316	318	316	324	333	338	304	300						
36																										
37	95	110	101	91	84	78	70	65	81	67	72	73	81	93	107	128	151	131	131	-						
38																										
39	301	128	145	145	198	193	192	115	119	132	155	188	208	216	224	212	229	216	216	-						
40																										
41	164	150	141	140	140	132	128	124	124	129	131	130	131	132	132	132	134	127	123	125						
42																										
43	86	88	94	96	83	83	84	62	49	49	10	8	9	11	20	32	49	45	47	-						
44																										
45	246	273	313	336	358	377	404	394	372	374	368	364	308	322	304	302	331	320	311	323						
46																										
47	7	12	11	10	10	12	13	14	16	22	29	38	57	78	104	135	132	133	155	188						
48																										
49																										
50																										
51	359	394	388	406	414	418	402	385	391	386	381	352	343	353	345	357	378	378	371	365						
52																										
53	925	938	934	918	925	949	939	999	977	904	903	884	844	798	804	771	856	863	833	827						
54																										
55																										
56																										
57	190	197	224	274	314	341	302	333	332	314	306	317	325	338	418	425	435	462	473	436						
58																										
59	85	96	111	119	95	90	89	94	100	97	107	112	97	111	88	89	101	86	80	68						
60																										
61	25	43	65	75	77	77	74	90	100	94	79	74	77	76	83	86	84	83	85	-						
62																										
63																										
64																										
65																										
66	737	755	704	597	386	592	553	588	613	697	702	704	770	875	895	987	1,184	1,302	1,305	1,352						
67																										
68	596	768	745	715	726	856	778	699	788	847	734	741	914	1,005	935	1,047	1,043	1,044	987	-						
69																										
70	352	376	365	353	380	405	445	476	493	496	469	473	133	396	267	147	131	128	238	275						
71																										
72	554	570	542	564	588	632	661	698</																		

Oil Production

Cell: DR138

**Comment:** Rick Heede:  
A Russian court declared Yukos bankrupt 1 Aug 2006

Cell: DW142

**Comment:** Rick Heede:  
A Russian court declared Yukos bankrupt 1 Aug 2006.

Cell: BN158

**Comment:** Rick Heede:  
World production in 1930 from Howarth (1997) A Century in Oil, p. 157. 3.86 million bbl per day = 1,409 million bbl per year.

Cell: DK158

**Comment:** Rick Heede:  
Best fit of EIA data 1960-1979 and 1980-forward, yet some anomaly 1979/1980. See row 141 for details.

Cell: EP158

**Comment:** Rick Heede:  
U.S. Energy Information administration data for 1980-2010. Sum of crude oil & lease condensate production, natural gas plant liquids, and other liquids (unclear, even though defined below; oil sand production is included in crude oil).

Cell: FC158

**Comment:** Rick Heede (Jan10):  
Energy Information Administration (2008) International Energy Annual 2006, Table 2.2 World Crude Oil including Lease Condensate Production, 1980-2006 (Thousand Barrels per Day)